



Oxygen

Description

Formula:	O ₂
Gas Data	
Molecular Weight:	32.00
Density:	1.326 kg/m ³ @ 21.1°C, 101.325 kPa 0.08279 lb/ft ³ @ 70°F, 14.696 psia
Specific Volume:	0.7541 m ³ /kg @ 21.1°C, 101.325 kPa 12.08 ft ³ /lb @ 70°F, 14.696 psia

Shipping Information

CAS Registry Number:	7782-44-7
UN Number:	UN 1072
ECCN Number:	EAR99
DOT Proper Shipping Name:	Oxygen, Compressed
DOT Classification:	2.2 (Nonflammable Gas)
DOT Label:	NON-FLAMMABLE GAS, OXIDIZER
TC Shipping Name:	Oxygen, Compressed
TC Classification:	2.2, 5.1
TC Label:	NON-FLAMMABLE GAS, NON-POISONOUS GAS, OXIDIZER

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	lb	kg
1L	540	2,640	18,202	173	78
1A	540	2,200	15,168	153	69
2	540	1,600	11,032	80	36
3	540	1,600	11,032	41	19
4	540	1,600	11,032	13	6
6	540	1,585	10,928	20	9
7B	540	1,650	11,376	6	3
7A	540	825	5,688	6	3
7	540	225	1,551	6	3
LB	170	1,600	11,032	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.
Oxygen, Research Purity 99.998%	G2182101	1A	249 ft ³	7.05 m ³	Dual Stage Reg.	Series 3810-540	318
<i>Guaranteed Specifications</i>	G2182140	2	70 ft ³	1.98 m ³	Single Stage Reg.	Series 3510-540	312
Argon < 5 ppm	G2182150	3	28 ft ³	0.79 m ³	Flash Arrestor	6104A	434
Carbon Dioxide < 0.1 ppm	G2182165	4	10 ft ³	0.28 m ³	Leak Detector	8081A	404
Carbon Monoxide < 0.1 ppm	G2182178	6	3.53 ft ³	100 L	Detector Tube	8014-159SC	392
Hydrogen < 0.1 ppm	G2182183	7B	1.76 ft ³	50 L			
Krypton < 1 ppm	G2182182	7A	0.88 ft ³	25 L			
Nitrogen < 5 ppm	G2182181	7	0.25 ft ³	7 L			
Nitrous Oxide < 2 ppm							
THC < 0.1 ppm							
Water < 1 ppm							
<i>A Certificate of Analysis is available on request at a nominal charge.</i>							
<i>Caution: Not for human consumption.</i>							
Oxygen, Matheson Purity 99.997%	G1885112	1L	337 ft ³	9.54 m ³	Dual Stage Reg.	Series 3810-540	318
<i>Guaranteed Specifications</i>	G1885101	1A	249 ft ³	7.05 m ³	Single Stage Reg.	Series 3510-540	312
Argon < 15 ppm	G1885140	2	70 ft ³	1.98 m ³	LB Regulator	Series 3570-170	314
Carbon Dioxide < 1 ppm	G1885150	3	28 ft ³	0.79 m ³	Flash Arrestor	6104A	434
Carbon Monoxide < 1 ppm	G1885165	4	10 ft ³	0.28 m ³	Leak Detector	8081A	404
Krypton < 10 ppm	G1885175	LB	2 ft ³	56 L	Detector Tube	8014-159SC	392
Nitrogen < 10 ppm							
THC < 0.5 ppm							
Water < 1 ppm							
<i>A Certificate of Analysis is available on request at a nominal charge.</i>							
<i>Caution: Not for human consumption.</i>							
Oxygen, Ultra High Purity 99.994%	G1979112	1L	337 ft ³	9.54 m ³	Dual Stage Reg.	Series 3120-540	299
<i>Guaranteed Specifications</i>	G1979101	1A	249 ft ³	7.05 m ³	Single Stage Reg.	Series 3530-540	313
Argon < 35 ppm	G1979140	2	70 ft ³	1.98 m ³	LB Regulator	Series 3570-170	314
Carbon Dioxide < 1 ppm	G1979150	3	28 ft ³	0.79 m ³	Flash Arrestor	6103A-O	434
Carbon Monoxide < 1 ppm	G1979165	4	10 ft ³	0.28 m ³	Leak Detector	8081A	404
Nitrogen < 10 ppm	G1979175	LB	2 ft ³	56 L	Detector Tube	8014-159SC	392
THC < 0.5 ppm							
Water < 3 ppm							
<i>A lot analysis is available on request. Please inquire for individual cylinder analysis.</i>							
<i>Caution: Not for human consumption.</i>							



Oxygen (continued)

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Oxygen, Zero Gas 99.8% THC as CH ₄ < 0.5 ppm	G2060112	1L	337 ft ³	9.54 m ³	Dual Stage Reg.	Series 3120-540	299
	G2060101	1A	249 ft ³	7.05 m ³	Single Stage Reg.	Series 3530-540	313
	G2060140	2	70 ft ³	1.98 m ³	LB Regulator	Series 3570-170	314
	G2060150	3	28 ft ³	0.79 m ³	Flash Arrestor	6103A-O	434
	G2060165	4	10 ft ³	0.28 m ³	Leak Detector	8081A	404
	G2060175	LB	2 ft ³	56 L	Detector Tube	8014-159SC	392
<p><i>A lot analysis will be provided with each cylinder. Please inquire for individual cylinder analysis.</i> <i>Caution: Not for human consumption</i></p>							
Oxygen, Extra Dry 99.6%	G1177201	1A	249 ft ³	7.05 m ³	Dual Stage Reg.	Series 3120-540	299
	G1177240	2	70 ft ³	1.98 m ³	Single Stage Reg.	Series 3530-540	313
	G1177250	3	28 ft ³	0.79 m ³	LB Regulator	Series 3550-170	314
	G1177265	4	10 ft ³	0.28 m ³	Flash Arrestor	6103A-O	434
	G1177275	LB	2 ft ³	56 L	Leak Detector	8081A	404
<p><i>A Certificate of Conformance will be provided on request.</i> <i>Caution: Not for human consumption.</i></p>							